

AMERICAN JOURNAL OF PHYSICS

Robert H. Romer, Editor
Don S. Lemons, Assistant Editor
Karla Keyes, Assistant to the Editor

Merrill Science Building, Room 222
Box 2262
Amherst College
Amherst, Massachusetts 01002
(413) 542-5792

ACKNOWLEDGEMENT OF RECEIPT OF MANUSCRIPT

We acknowledge receipt of the following manuscript:

Manuscript number (to be used in ALL correspondence, please): 5951.

Title: The Twin Paradox And The Conventionality Of Simultaneity

Author(s): Talal A. Debs and Michael L. G. Redhead

Date received: 06/08/94

This Journal can only consider for publication work that has not been published and that is not currently being considered for publication elsewhere. Submission of a manuscript also constitutes an agreement that the manuscript will not be submitted elsewhere while it is being considered by AJP. If this policy raises any problems, please contact the editors immediately.

Please notice that the style of reference for this Journal is different from that used by many physics journals; we include titles and final as well as initial page numbers of journal articles. If this, or any of the other items on the opposite side of this sheet are marked, please take appropriate action so as to expedite review of your manuscript.

If we have asked for additional copies, please understand that we need four double-spaced copies for the review and editorial process. With a very limited staff and a large number of manuscripts, we are unable to xerox additional copies; thank you for your cooperation.

CONTINUED ON OPPOSITE SIDE

INFORMATION FOR CONTRIBUTORS

Keep the original of your manuscript and figures in your file, and submit *four* copies of both. This will enable us to request two reviews simultaneously, to forward a copy to the compositor if the paper is accepted, and to retain a copy in our files. Authors may, if they wish, omit their names and affiliations on two of the copies submitted, so that they remain anonymous during the review process.

Authors who are planning review or tutorial articles are encouraged to discuss their plans with the editors at an early stage.

Upon acknowledgment, a manuscript will be given an AJP Editorial Office *Manuscript Number*. Please use this number in all correspondence with the editorial office, and label any subsequent revisions with this number. If revisions are submitted during the editorial process, four complete copies should be supplied. Manuscripts will not normally be returned whether the paper is accepted or rejected. If a paper is accepted, we will determine whether the copies we have are adequate for use by the compositor. If not, we will at that time request clear copies from the author, along with acceptable copies of the figures.

Authors are expected to carry out a thorough literature search before submitting manuscripts. Papers with clearly inadequate references will be returned without review.

Form: The manuscript should be typed or printed on a good quality printer, on one side of the paper only, double spaced (i.e., approximately 3 lines/in.), on $8\frac{1}{2} \times 11$ -in. sheets, using type of standard size (approximately 10 characters/in.). Margins of about $1\frac{1}{2}$ -in. width should be left on top, sides, and bottom. All manuscript pages should be numbered, including the title or abstract page and all end matter except figures.

General Style: The *Style Manual* of the American Institute of Physics, 4th ed., 1990, is available from American Institute of Physics, c/o AIDC, 64 Depot Road, Colchester, VT 05446, for \$10.00. To order via credit card, call toll free: 800-488-2665. It contains further information on the preparation of manuscripts, including a list of standard abbreviations, correct rules of punctuation, spelling, choice of symbols, and hints on the arrangement and numbering of equations.

Every article in the "PAPERS" section of the Journal must be prefaced by an abstract.

Authors are expected to cooperate with the editors in wording their manuscripts in a manner consistent with the fact that groups such as physicists, students, and teachers include both women and men.

Illustrations: Maximum black-white contrast is necessary. Line drawings should be good clear glossy prints or original India-ink drawings on plain white drawing paper or blue tracing cloth. Computer-generated graphs are acceptable only if produced on a high-quality printer with sharp, dense lines and characters on plain white paper. Avoid small open symbols, which tend to fill in upon reduction, small dots and decimal points, and lines that are not thick enough to withstand reduction. A good size for drawings is two or three times that desired for the printed figure, with all lettering and line thicknesses similarly enlarged. Most illustrations are reproduced slightly less than one column wide; they should be planned accordingly. Lettering should be done with a standard lettering guide; use of a Leroy or equivalent instrument is recommended. Hand-lettered diagrams and graphs are not acceptable. Lettering should be of a size so that, when reduced, the smallest lower case letters will be at least 1.5 mm in height. Avoid gross disparities in lettering size. If a graph is drawn on coordinate paper, the paper must be *blue lined*. The important coordinate lines should be ruled over in black and made narrower than the lines of the curves and those of the frame. Graphs should have properly labeled axes with correctly abbreviated units. Figures should be cited in the text in numerical order. On the back of each illustration there should appear in pencil the number of the figure, the name of the author, and the title of the article.

For presenting apparatus, a line drawing is almost always better than a photograph. If a photograph is essential, it should have a glossy finish and must be standard 8×10 -in. size. For satisfactory reproduction, a print must be unblurred and must show sharp contrast. Polaroid prints are not acceptable except for the display of oscilloscope traces.

Figure captions: A brief legend should be provided for every diagram and photograph, but it should not be made part of the figure. Legends are typeset and hence should be listed together on the final page.

Tables: Tables should be typed on separate sheets at the end of the running text. They should be numbered consecutively with roman numerals. Each table should be provided with a brief title.

Footnotes: Footnotes should be typed double spaced and grouped together in sequence at the end of the manuscript. Footnotes should be numbered consecutively throughout the article, regardless of whether they are explanatory or literature references, except when they are appended to the author's name. In these exceptional cases, Latin letters are used. Explanatory footnotes may not themselves be footnoted.

Footnote references to periodical articles should have the following form, providing *title* and *final* page as well as the initial page:

¹Freeman J. Dyson, "Feynman's proof of the Maxwell equations," *Am. J. Phys.* **58**, 209-211 (1990).

A footnote reference to a book should have the form:

²David J. Griffiths, *Introduction to Electrodynamics* (Prentice-Hall, Englewood Cliffs, NJ, 1989), 2nd ed., pp. 331-334.

Units: Authors are encouraged to use SI units. Use of SI units is not mandatory, however, if other units are more appropriate.

Equations: Each important equation should appear on a separate line, with the correct punctuation placed before and after it. The number of the equation, in parentheses, should be placed near the right-hand margin. Write $E = mv^2/2$, $a = dv/dt$, $a = b/(c+d)$, $a = \log(b/c)$. Avoid bars either above or below letters; thus write $v^{1/2}$, $(ax + by)^{1/2}$, $(v_{av}^2)^{1/2}$. Avoid subscripts on subscripts, etc. Adequate space must be allowed for marking of inferior and superior letters or numbers. Crowded equations lead to errors in composition.

Alterations in proof: A limited number of alterations in proof are unavoidable, but the cost of making extensive corrections and changes after an article has been composed will be charged to the author. Final responsibility for correcting errors lies with the author.

The *Physics Auxiliary Publication Service* (PAPS) of the AIP can be used as a depository for important material that is supplementary to a published paper but too lengthy to include in the Journal. A footnote with an article will indicate that auxiliary materials are deposited with PAPS. The deposited material is available to readers at low cost.

Manuscripts should be sent to the Editor, American Journal of Physics, Merrill Science Building, Room 222, P.O. Box 2262, Amherst College, Amherst, Massachusetts 01002. (Submissions of Apparatus and Demonstration Notes or New Problems should be sent to the appropriate section editor.) Authors are requested to read the "Statement of Editorial Policy," *Am. J. Phys.* **62**, 9 (1994). Receipt of new manuscripts will be acknowledged to the principal author. (*Revised* manuscripts are not normally acknowledged.) We try to provide a further report to authors within 3 months of the date of receipt, but a longer delay is sometimes unavoidable. Correspondence concerning papers with more than one author should include the names of *all* authors, and the AJP editorial office *manuscript number*.

Reprints: Authors will automatically receive a reprint order form with proofs of their manuscripts.

Checklist: Perusal of the following list will enable authors to avoid the most common problems with submitted manuscripts and will ease the work of the editorial office and of the compositor.

- (1) Send four copies of all material submitted.
- (2) The manuscript should be in type of standard size (10 characters/in.), double spaced (3 lines/in.), with ample margins.
- (3) References and footnotes should be grouped together at the end of the manuscript. References should be given in the style illustrated above. Notice that the style of references for the *American Journal of Physics*, which includes *titles* and *final* as well as initial page numbers, differs from that used in many physics journals.
- (4) Tables should be on separate pages, following the references.
- (5) Each figure must have a brief caption; figure captions should be on a separate page, at the end of the text. Figure captions should not be on the figures themselves.
- (6) Number all pages (except the actual figures) in sequence, including title, abstract, text, references, caption list, tables.
- (7) Marginal notes are often helpful to enable the copy editor to identify correctly mathematical symbols, Greek letters, etc.
- (8) The figures should be of quality appropriate for reproduction.
- (9) A complete literature search must be carried out.



AMERICAN JOURNAL OF PHYSICS
Merrill Science Building, Room 222, Box 2262
Amherst College, Amherst, Massachusetts 01002, (413) 542-5792

Under U.S. copyright law, the transfer of copyright from the author(s) should be explicitly stated to enable the publisher to disseminate the work to the fullest extent. The following transfer must be signed and returned to the Editor's office before the manuscript can be accepted for publication. Please note that if the manuscript has been prepared as a Work Made For Hire, the transfer should be signed by both employer and employee. Address requests for further information or exceptions to the Editor, *American Journal of Physics*, 222 Merrill Science Building, Box 2262, Amherst College, Amherst, MA 01002.

TRANSFER OF COPYRIGHT AGREEMENT

Copyright to the unpublished and original article, including copyright to the abstract forming part thereof, entitled

submitted by the following author(s) (names of all authors) _____

is hereby transferred to AAPT (American Association of Physics Teachers) for the full term thereof throughout the world, BUT SUBJECT to the following rights reserved to the author(s) and to acceptance of the article for publication in

THE AMERICAN JOURNAL OF PHYSICS

AAPT shall have the right to register copyright to the article and the accompanying abstract in its name as claimant, whether separately or as part of the journal issue or other medium in which such work is included.

The author(s) reserve the following rights:

- (1) All proprietary rights other than copyright, such as patent rights.
- (2) The right, after publication by AAPT, to grant or refuse permission to third parties to republish all or part of the article or translations thereof. In the case of whole articles, such third parties must obtain AAPT's written permission as well. However, such permission will not be refused by AAPT except at the direction of the author. AAPT may grant rights with respect to journal issues as a whole.
- (3) The right, after publication by AAPT, to use all or part of the article and abstract in compilations or other publications of the author's own works, and to make copies of all or part of such material for the author's use for lecture or classroom purposes.
- (4) If the article has been prepared by an employee within the scope of his or her employment, the employer reserves the right to make copies of the work for its own internal use. If the article was prepared under a U.S. Government contract, the government shall have the rights under the copyright to the extent required by the contract.

The author(s) agree that all copies of the whole article or abstract made under any of the above reserved rights shall include notice of the AAPT copyright. If each author's signature does not appear below, the signing author(s) represent that they sign this agreement as authorized agents for and on behalf of all the authors, and that this agreement and authorization is made on behalf of all the authors.

Signature _____ Date _____

Name (print) _____

If the manuscript has been prepared as a Work Made For Hire, the transfer should be signed by the employee (above) and by the employer (below):

Name of Employer (print)

Signature _____ Name (print) _____ Title _____ Date _____

A work prepared by a U.S. Government officer or employee as part of his or her official duties is not eligible for U.S. copyright. If at least one of the authors is *not* in this category, that author should sign above. If all the authors are in this category, check the box here and return this form unsigned. ☐

